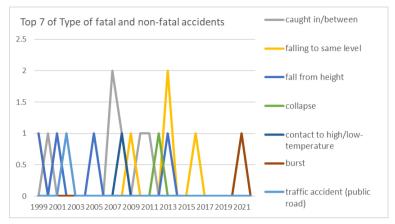
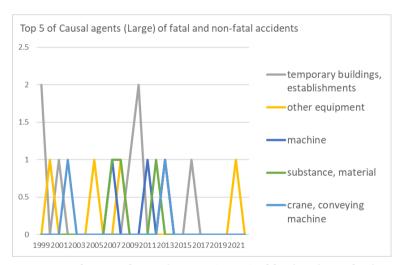
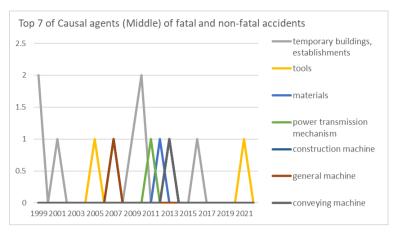
Transition of fatal and non-fatal accidents in 020302 petroleum mining in Japan (1999-2022)



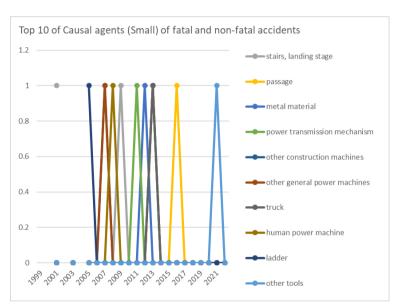
Transition of Top 7 of Type of fatal and non-fatal accidents in 020302 petroleum mining in Japan (1999-2022)



Transition of Top 5 of Causal agents (Large) of fatal and non-fatal accidents in 020302 petroleum mining in Japan (1999-2022)



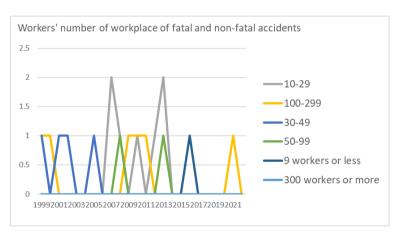
Transition of Top 7 of Causal agents (Middle) of fatal and non-fatal accidents in 020302 petroleum mining in Japan (1999-2022)



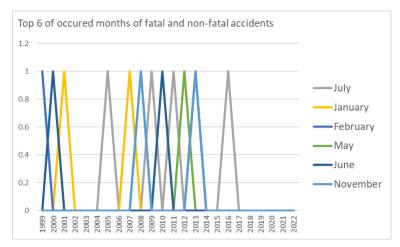
Transition of Top 10 of Causal agents (Small) of fatal and non-fatal accidents in 020302 petroleum mining in Japan (1999-2022)



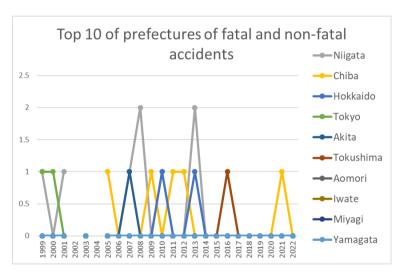
Transition of workers' age groups of fatal and non-fatal accidents in 020302 petroleum mining in Japan (1999-2022)



Transition of workers' number of workplace of fatal and non-fatal accidents in 020302 petroleum mining in Japan (1999-2022)



Transition of Top 6 of occured months of fatal and non-fatal accidents in 020302 petroleum mining in Japan (1999-2022)



Transition of Top 10 of prefectures of fatal and non-fatal accidents in 020302 petroleum mining in Japan (1999-2022)

Transition of Type of fatal and non-fatal accidents in 020302 petroleum mining in Japan (1999-2022)

Type of accidents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total	Type of accidents
caught in/between		1							2	1		1	1												6	caught in/between
falling to same level	1										1				2			1							5	falling to same

																level
fall from height	1	1			1					1					4	fall from height
collapse									1						1	collapse
contact to high/low- temperature							1								1	contact to high/low- temperature
burst														1	1	burst
traffic accident (public			1												1	traffic accident (public road)
reaction to motion/improper motion								1							1	reaction to motion/improper motion
crash																crash
struck by flying or falling object																struck by flying or falling object
crashed by																crashed by
cut																cut
injury to the sole of the foot																injury to the sole of the foot
drown																drown
contact to harmful substance																contact to harmful substance
electric shock																electric shock
explosion																explosion

fire																				fire
traffic accident																				traffic accident
(others)																				(others)
others																				others
unclassifiable																				unclassifiable
total	2	1	1	1		1	2	2	1	2	1	1	3		1			1	20	total

Transition of Causal agents (Large) of fatal and non-fatal accidents in 020302 petroleum mining in Japan (1999-2022)

2016	2015	2016	2017	2018	2019	9 2020	202	1 20	022 t	total	Causal (L) agents
1		1							8	8	temporary buildings, establishment
							1		4	4	other equipment
										3	machine
									3	3	substance,
										2	crane, conveying machine
											load
											environment
											others

total	2 1	1 1	1	2 2	1 2 1	1 3	1	1 20 total	
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Transition of Causal agents (Middle) of fatal and non-fatal accidents in 020302 petroleum mining in Japan (1999-2022)

Causal (M) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total	Causal (M)
temporary buildings, establishments	2		1								1	2			1			1							8	temporary buildings, establishments
tools							1																1		2	tools
materials									1					1											2	materials
power transmission mechanism													1												1	power transmission mechanism
construction machine															1										1	construction machine
general machine									1																1	general machine
conveying machine															1										1	conveying machine
vehicle				1																					1	vehicle
electric equipment		1																							1	electric equipment
human power machine,										1															1	human power machine, tools
hazards, harmful																										hazards,

substances				1								1	harmful
													substances
engine													engine
woodworking machine													woodworking
woodworking machine													machine
metal manufacturing													metal
machine													manufacturing
macrime													machine
mobile silviculture													mobile
machine													silviculture
macrime													machine
crane													crane
pressure vessel													pressure vessel
													chemical
chemical facilities													facilities
													welding
welding equipment													equipment
kiln, caldron													kiln, caldron
													other
other equipments,													equipments,
facilities													facilities
load													load
													natural
natural environment													environment
													other causal
other causal agent													

																				agent
no causal agent																				no causal
no causal agent																				agent
unclassifiable																				unclassifiable
total	2	1	1	1		1	2	2	1	2	1	1	3		1			1	20	total

Transition of Causal agents (Small) of fatal and non-fatal accidents in 020302 petroleum mining in Japan (1999-2022)

Causal (S) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total	Causal (S) agents
stairs, landing stage			1								1														2	stairs, landing stage
passage															1			1							2	passage
metal material									1					1											2	metal material
power transmission mechanism													1												1	power transmission mechanism
other construction machines															1										1	other construction machines
other general power machines									1																1	other general power machines
truck															1										1	truck
human power machine										1															1	human power machine
ladder							1																		1	ladder
other tools																							1		1	other tools
building, establishment												1													1	building, establishment

other temporary														other temporary
buildings,						1							1	buildings,
establishments														establishments
other hazards,														other hazards,
harmful substances													1	harmful substances
engine														engine
circular sawing														circular sawing
machine														machine
band sawing														band sawing
machine														machine
wood planer														wood planer
machine														machine
hollow chisel														hollow chisel
mortiser, wood														mortiser, wood
borer														borer
chamfering														chamfering
machine, router,														machine, router,
woodworking														woodworking
milling machine														milling machine
chain saw														chain saw
other woodworking														other woodworking
machines														machines
leveling,														leveling,
transporting or														transporting or
loading machine														loading machine

excavating machine													excavating machine
foundation work													foundation work machine
hardening machine													hardening machine
demolition machine													demolition machine
vehicle for high lift work													vehicle for high lift work
lathe													lathe
drill press, milling machine													drill press, milling machine
grinding machine, buffing machine													grinding machine, buffing machine
power press													power press
forging pressure													forging pressure hammer
shearing machine													shearing machine
other metal manufacturing machines												ŀ	other metal manufacturing machines
centrifugal machine													centrifugal machine
mixer, grinder												I	mixer, grinder
roll machine (except printingroll machine)												I	roll machine (except printingroll machine)
injection molding												li	injection molding

machine												m	nachine
food manufacturing												fo	ood manufacturing
machine												m	nachine
printing machine												рі	rinting machine
industrial robot												in	ndustrial robot
felling machine												fe	elling machine
mobile logging												m	nobile logging
machine												m	nachine
skyline yarding												sk	kyline yarding
machine												m	nachine
other mobile												ot	ther mobile
silviculture machine												si	ilviculture machine
crane												cr	rane
mobile crane												m	nobile crane
derrick crane												de	errick crane
elevator, lift												el	levator, lift
cargo lifting												ca	argo lifting
appliance												ap	ppliance
gondola												ge	ondola
lumberyard												lu	umberyard
equipment, logging												ec	quipment, logging
cableway												ca	ableway
simple skyline												si	imple skyline
yarding equipment												ya	arding equipment

other powered	other powered
crane	crane
forklift	forklift
railway equipment	railway equipment
conveyor	conveyor
loader	loader
straddle carrier	straddle carrier
rough terrain hauler	rough terrain hauler
other powered conveying machines	other powered conveying machines
cars, bus, motorcycle	cars, bus, motorcycle
railway vehicle	railway vehicle
other vehicles	other vehicles
boiler	boiler
pressure vessel	pressure vessel
other pressure vessels	other pressure vessels
chemical facilities	chemical facilities
gas welding equipment	gas welding equipment
arc welding equipment	arc welding equipment
other welding	other welding

equipment													equipment
kiln, caldron													kiln, caldron
industrial dryer													industrial dryer
other kiln, caldron													other kiln, caldron
transmission													transmission
electric power													electric power
facilities													facilities
other electrical													other electrical
equipment													equipment
human power													human power
cranes													cranes
human power													human power
hauling equipment													hauling equipment
hand tool													hand tool
slinging tool													slinging tool
other equipment,													other equipment,
facilities													facilities
scaffolding													scaffolding
timbering													timbering
opening													opening
roof, beam, haze,													roof, beam, haze,
crossbeam,													crossbeam,
principal rafter													principal rafter
working platform,													working platform,
boot board													boot board

	 	 	 	 	!	 							
explosive substance													explosive substance
inflammable													inflammable
substance													substance
inflammable gas													inflammable gas
harmful substance													harmful substance
radiation													radiation
lumber, bamboo													lumber, bamboo
stone, sand,													stone, sand,
substance													substance
other materials													other materials
load													load
machine/equipment													machine/equipmen
as load													as load
natural ground,													natural ground,
rock													rock
standing tree													standing tree
water													water
abnormal													abnormal
environment													environment
high/cold													high/cold
temperature													temperature
environment													environment
other environments													other environments
other causal agent													other causal agent

no causal agent																				no causal agent
unclassifiable																				unclassifiable
total	2	1	1	1		1	2	2	1	2	1	1	3		1			1	20	total

Transition of workers' age groups of fatal and non-fatal accidents in 020302 petroleum mining in Japan (1999-2022)

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total	Age
30-39	1										1	1			2			1					1		7	30-39
50-59	1			1			1		1						1										5	50-59
20-29		1							1	1			1												4	20-29
60 years old or			1											1											2	60 years old or
more																										more
19 years old or less										1															1	19 years old or less
40-49												1													1	40-49
total	2	1	1	1			1		2	2	1	2	1	1	3			1					1		20	total

Transition of workers' number of workplace of fatal and non-fatal accidents in 020302 petroleum mining in Japan (1999-2022)

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total	Workers scale
10-29									2	1		1		1	2										7	10-29
100-299	1	1									1	1	1										1		6	100-299
30-49	1		1	1			1																		4	30-49
50-99										1					1										2	50-99
9 workers or less																		1							1	9 workers or less
300 workers or																										300 workers or
more																										more

total	2 1	1	1		1	2	2		2	1	1	3			1					1		20	total	
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Transition of occured months of fatal and non-fatal accidents in 020302 petroleum mining in Japan (1999-2022)

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total	Month
July	1						1				1		1					1							5	July
January			1						1						1										3	January
February	1														1										2	February
May										1				1											2	May
June		1										1													2	June
November										1					1										2	November
December				1					1																2	December
April												1													1	April
September																							1		1	September
March																										March
August																										August
October																										October
total	2	1	1	1			1		2	2	1	2	1	1	3			1					1		20	total

Transition of prefectures of fatal and non-fatal accidents in 020302 petroleum mining in Japan (1999-2022)

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total	Prefecture
Niigata	1		1						1	2		1			2										8	Niigata
Chiba							1				1		1	1									1		5	Chiba
Hokkaido												1			1										2	Hokkaido
Tokyo	1	1																							2	Tokyo

Akita				1									1	Akita
Tokushima									1				1	Tokushima
Aomori														Aomori
lwate									ĺ					lwate
Miyagi									ĺ					Miyagi
Yamagata														Yamagata
Fukushima														Fukushima
Ibaraki														Ibaraki
Tochigi														Tochigi
Gunma														Gunma
Saitama														Saitama
Kanagawa														Kanagawa
Toyama														Toyama
Ishikawa														Ishikawa
Fukui														Fukui
Yamanashi														Yamanash
Nagano														Nagano
Gifu														Gifu
Shizuoka														Shizuoka
Aichi														Aichi
Mie														Mie
Shiga														Shiga
Kyoto														Kyoto
·												<u> </u>		1 -

Osaka																				Osaka
Hyogo																				Hyogo
Nara																				Nara
Wakayama																				Wakayama
Tottori																				Tottori
Shimane																				Shimane
Okayama																				Okayama
Hiroshima																				Hiroshima
Yamaguchi																				Yamaguchi
Kagawa																				Kagawa
Ehime																				Ehime
Kochi																				Kochi
Fukuoka																				Fukuoka
Saga																				Saga
Nagasaki																				Nagasaki
Kumamoto																				Kumamoto
Oita																				Oita
Miyazaki																				Miyazaki
Kagoshima																				Kagoshima
Okinawa																				Okinawa
total	2	1	1	1		1	2	2	1	2	1	1	3		1			1	20	total

 ${\sf Data\ Source: \underline{https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.html\ MHLW, Jaan}}$

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